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CON'D*

a high transition temperature, and methods for making these compounds. Examples given therein include compounds of the general composition RE_2TMO_4 , where RE stands for the rare earths (lanthanides), TM stands for transition metals, and O is oxygen. The RE portion can be partially substituted by an alkaline earth element. An example is a compound in the series $La_{2-x}Ba_xCuO_{4-y}$, where $x \leq 0.3$ and $y \leq 0.5$. --

Page 7, line 9,

After "element" insert --) --.

IN THE CLAIMS

Claim 4, line 3,

Change "B" to --Be--.

Claim 24, line 5,

Change "lowering" to --maintaining--.

" , " ,

Change "least" to --a temperature less than--.

" , line 6,

Delete "to".

Claim 36, (page 37), line 9,

Change ", and" to -- . --.

" , (page 37), lines 10-12, Delete everything appearing on

these lines. ↗

Claim 46, line 4,

After "including a" insert
--transition--. ↗

Claim 55, line 8,

Delete " , and " and
insert --therefore--. ↗

" , lines 9-11,

Delete everything appearing on
lines 9-11. ↗

Claim 58, (page 43), line 8,

Change "cooling" to --maintaining--. ↗

" , " , " ,

Change "to" to --in--. ↗

Claim 59, line 9,

Change "cooling" to --maintaining--. ↗

" , line 10,

Change "to" to --in--. ↗

Claim 64, (page 45), line 9,

Change " , and" to -- . --. ↗

" , " , lines 10,11) Delete everything appearing on lines
10 and 11. ↗

Claim 77, (page 50), line 8),

Change "cooled" to --in--. ↗

" , line 9,

✓ Delete "to".

Claim 79, line 2,

✓ Change "1:1" to --2:1--.

Claim 82, line 15,

✓ Change "supercoductor" to
--superconductor--.

Claim 84, line 7,

✓ Change "cooled to" to --in--.

Claim 86, (page 53), line 9,

✓ Change "cooling" to --maintaining--.

" (same line) "

✓ Change "to" to --in--.

Claim 88 (page 54), line 4,

✓ Change "cooling" to --maintaining--.

" (same line) "

✓ Change "to" to --at--.

Please add the following new claims 91 - 95.]

91. (ADDED) A combination, comprising:

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a composition exhibiting the onset of a DC substantially
zero resistance state at an onset temperature in excess
of 30K, and

means for passing an electrical current through said composition while it is in said substantially zero resistance state.

92. (ADDED) The combination of claim 91, where said composition is a copper oxide.

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and* 93. (ADDED) An apparatus, comprising:

a mixed copper oxide material exhibiting an onset of superconductivity at an onset temperature greater than 26K, and

means for producing an electrical current through said copper oxide material while it is in a superconducting state at a temperature in excess of 26K.

94. (ADDED) The apparatus of claim 93, where said copper oxide material exhibits a layer-like crystalline structure.